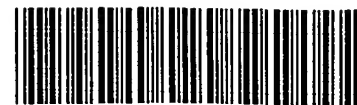


1646



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/645,702

DATE: 01/21/2004

TIME: 12:30:15

Input Set : N:\Crf3\RULE60\10645702.RAW.txt

Output Set: N:\CRF4\01212004\J645702.raw

1 <110> APPLICANT: Shi, Yanggu
 2 Ruben, Steve M.
 3 <120> TITLE OF INVENTION: Interleukin 17 Receptor-Like Protein
 4 <130> FILE REFERENCE: PF398P2
 5 <140> CURRENT APPLICATION NUMBER: 10/645,702
 6 <141> CURRENT FILING DATE: 2003-08-22
 7 <150> PRIOR APPLICATION NUMBER: US/09/796,844
 8 <151> PRIOR FILING DATE: 2001-03-02
 9 <150> PRIOR APPLICATION NUMBER: 60/187,015
 10 <151> PRIOR FILING DATE: 2000-03-06
 11 <150> PRIOR APPLICATION NUMBER: PCT/US00/05759
 12 <151> PRIOR FILING DATE: 2000-03-06
 13 <150> PRIOR APPLICATION NUMBER: PCT/US99/21048
 14 <151> PRIOR FILING DATE: 1999-09-15
 15 <150> PRIOR APPLICATION NUMBER: 09/268,311
 16 <151> PRIOR FILING DATE: 1999-03-16
 17 <150> PRIOR APPLICATION NUMBER: PCT/US98/19121
 18 <151> PRIOR FILING DATE: 1998-09-16
 19 <150> PRIOR APPLICATION NUMBER: 09/154,219
 20 <151> PRIOR FILING DATE: 1998-09-16
 21 <150> PRIOR APPLICATION NUMBER: 60/059,133
 22 <151> PRIOR FILING DATE: 1997-09-17
 23 <160> NUMBER OF SEQ ID NOS: 35
 24 <170> SOFTWARE: PatentIn Ver. 2.1
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 1816
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Homo sapiens
 30 <220> FEATURE:
 31 <221> NAME/KEY: CDS
 32 <222> LOCATION: (10)..(1287)
 33 <221> NAME/KEY: mat_peptide
 34 <222> LOCATION: (67)..(1287)

ENTERED

W--> 35 <221> sig_peptide

36 <222> LOCATION: (10)..(66)

W--> 37 <400> 1

38 gcacgagcgc atg tcg ctc gtg ctg cta agc ctg gcc gcg ctg tgc agg agc 51
 39 Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser
 40 -15 -10
 41 gcc gta ccc cga gag ccg acc gtt caa tgt ggc tct gaa act ggg cca 99
 42 Ala Val Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro
 43 -5 -1 1 5 10
 44 tct cca gag tgg atg cta caa cat gat cta atc ccc gga gac ttg agg 147

RAW SEQUENCE LISTING

DATE: 01/21/2004

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Input Set : N:\Cr3\RULE60\10645702.RAW.txt

Output Set: N:\CRF4\01212004\J645702.raw

45	Ser	Pro	Glu	Trp	Met	Leu	Gln	His	Asp	Leu	Ile	Pro	Gly	Asp	Leu	Arg	
46				15					20					25			
47	gac	ctc	cga	gta	gaa	cct	gtt	aca	act	agt	gtt	gca	aca	ggg	gac	tat	195
48	Asp	Leu	Arg	Val	Glu	Pro	Val	Thr	Thr	Ser	Val	Ala	Thr	Gly	Asp	Tyr	
49			30					35					40				
50	tca	att	ttg	atg	aat	gta	agc	tgg	gta	ctc	cgg	gca	gat	gcc	agc	atc	243
51	Ser	Ile	Leu	Met	Asn	Val	Ser	Trp	Val	Leu	Arg	Ala	Asp	Ala	Ser	Ile	
52		45					50				55						
53	cgc	ttg	ttg	aag	gcc	acc	aag	att	tgt	gtg	acg	ggc	aaa	agc	aac	ttc	291
54	Arg	Leu	Leu	Lys	Ala	Thr	Lys	Ile	Cys	Val	Thr	Gly	Lys	Ser	Asn	Phe	
55		60				65			70						75		
56	cag	tcc	tac	agc	tgt	gtg	agg	tgc	aat	tac	aca	gag	gcc	ttc	cag	act	339
57	Gln	Ser	Tyr	Ser	Cys	Val	Arg	Cys	Asn	Tyr	Thr	Glu	Ala	Phe	Gln	Thr	
58				80				85						90			
59	cag	acc	aga	ccc	tct	ggt	ggt	aaa	tgg	aca	ttt	tcc	tac	atc	ggc	ttc	387
60	Gln	Thr	Arg	Pro	Ser	Gly	Gly	Lys	Trp	Thr	Phe	Ser	Tyr	Ile	Gly	Phe	
61			95					100					105				
62	cct	gta	gag	ctg	aac	aca	gtc	tat	ttc	att	ggg	gcc	cat	aat	att	cct	435
63	Pro	Val	Glu	Leu	Asn	Thr	Val	Tyr	Phe	Ile	Gly	Ala	His	Asn	Ile	Pro	
64		110					115				120						
65	aat	gca	aat	atg	aat	gaa	gat	ggc	cct	tcc	atg	tct	gtg	aat	ttc	acc	483
66	Asn	Ala	Asn	Met	Asn	Glu	Asp	Gly	Pro	Ser	Met	Ser	Val	Asn	Phe	Thr	
67		125					130				135						
68	tca	cca	ggc	tgc	cta	gac	cac	ata	atg	aaa	tat	aaa	aaa	aag	tgt	gtc	531
69	Ser	Pro	Gly	Cys	Leu	Asp	His	Ile	Met	Lys	Tyr	Lys	Lys	Lys	Cys	Val	
70		140				145				150					155		
71	aag	gcc	gga	agc	ctg	tgg	gat	ccg	aac	atc	act	gct	tgt	aag	aag	aat	579
72	Lys	Ala	Gly	Ser	Leu	Trp	Asp	Pro	Asn	Ile	Thr	Ala	Cys	Lys	Lys	Asn	
73				160				165						170			
74	gag	gag	aca	gta	gaa	gtg	aac	ttc	aca	acc	act	ccc	ctg	gga	aac	aga	627
75	Glu	Glu	Thr	Val	Glu	Val	Asn	Phe	Thr	Thr	Thr	Pro	Leu	Gly	Asn	Arg	
76			175					180					185				
77	tac	atg	gct	ctt	atc	caa	cac	agc	act	atc	atc	ggg	ttt	tct	cag	gtg	675
78	Tyr	Met	Ala	Leu	Ile	Gln	His	Ser	Thr	Ile	Ile	Gly	Phe	Ser	Gln	Val	
79		190					195				200						
80	ttt	gag	cca	cac	cag	aag	aaa	caa	acg	cga	gct	tca	gtg	gtg	att	cca	723
81	Phe	Glu	Pro	His	Gln	Lys	Lys	Gln	Thr	Arg	Ala	Ser	Val	Val	Ile	Pro	
82		205				210					215						
83	gtg	act	ggg	gat	agt	gaa	ggt	gct	acg	gtg	cag	ctg	act	cca	tat	ttt	771
84	Val	Thr	Gly	Asp	Ser	Glu	Gly	Ala	Thr	Val	Gln	Leu	Thr	Pro	Tyr	Phe	
85		220				225				230					235		
86	cct	act	tgt	ggc	agc	gac	tgc	atc	cga	cat	aaa	gga	aca	gtt	gtg	ctc	819
87	Pro	Thr	Cys	Gly	Ser	Asp	Cys	Ile	Arg	His	Lys	Gly	Thr	Val	Val	Leu	
88				240				245						250			
89	tgc	cca	caa	aca	ggc	gtc	cct	ttc	cct	ctg	gat	aac	aac	aaa	agc	aag	867
90	Cys	Pro	Gln	Thr	Gly	Val	Pro	Phe	Pro	Leu	Asp	Asn	Asn	Lys	Ser	Lys	
91			255				260				265						
92	ccg	gga	ggc	tgg	ctg	cct	ctc	ctc	ctg	ctg	tct	ctg	ctg	gtg	gcc	aca	915
93	Pro	Gly	Gly	Trp	Leu	Pro	Leu	Leu	Leu	Leu	Ser	Leu	Leu	Val	Ala	Thr	

RAW SEQUENCE LISTING

DATE: 01/21/2004

PATENT APPLICATION: US/10/645,702

TIME: 12:30:15

Input Set : N:\Crif3\RULE60\10645702.RAW.txt

Output Set: N:\CRF4\01212004\J645702.raw

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94          270          275          280
95 tgg gtg ctg gtg gca ggg atc tat cta atg tgg agg cac gaa agg atc 963
96 Trp Val Leu Val Ala Gly Ile Tyr Leu Met Trp Arg His Glu Arg Ile
97          285          290          295
98 aag aag act tcc ttt tct acc acc aca cta ctg ccc ccc att aag gtt 1011
99 Lys Lys Thr Ser Phe Ser Thr Thr Thr Leu Leu Pro Pro Ile Lys Val
100          300          305          310          315
101 ctt gtg gtt tac cca tct gaa ata tgt ttc cat cac aca att tgt tac 1059
102 Leu Val Val Tyr Pro Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr
103          320          325          330
104 ttc act gaa ttt ctt caa aac cat tgc aga agt gag gtc atc ctt gaa 1107
105 Phe Thr Glu Phe Leu Gln Asn His Cys Arg Ser Glu Val Ile Leu Glu
106          335          340          345
107 aag tgg cag aaa aag aaa ata gca gag atg ggt cca gtg cag tgg ctt 1155
108 Lys Trp Gln Lys Lys Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu
109          350          355          360
110 gcc act caa aag aag gca gca gac aaa gtc gtc ttc ctt ctt tcc aat 1203
111 Ala Thr Gln Lys Lys Ala Ala Asp Lys Val Val Phe Leu Leu Ser Asn
112          365          370          375
113 gac gtc aac agt gtg tgc gat ggt acc tgt ggc aag agc gag ggc agt 1251
114 Asp Val Asn Ser Val Cys Asp Gly Thr Cys Gly Lys Ser Glu Gly Ser
115          380          385          390          395
116 ccc agt gag aac tct caa gac tct tcc cct tgc ctt taaccttttc 1297
117 Pro Ser Glu Asn Ser Gln Asp Ser Ser Pro Cys Leu
118          400          405
119 tgcagtgatc taagaagcca gattcatctg cacaaatagc tgggtggtcta ctttagagag 1357
120 attgatacaa aagacgatta caatgctctc agtgtctgcc ccaagtacca cctcatgaag 1417
121 gatgccactg ctttctgtgc agaacttctc catgtcaagt agcaggtgtc agcaggaaaa 1477
122 agatcacaag cctgccacga tggctgtctg tccttgtagc ccacccatga gaagcaagwg 1537
123 accttaaagg cttcctatcc caccaattac agggaaaaaa cgtgtgatga tcctgaagct 1597
124 tactatgcag cctacaaaca gccttagtaa ttaaaacatt ttataccaat aaaattttca 1657
125 aatattgcta actaatgtag cattaactaa cgattggaaa ctacatttac aacttcaaag 1717
126 ctgttttata catagaaatc aattacagtt ttaattgaaa actataacca ttttgataat 1777
127 gcaacaataa agcatcttca gccaaaaaaa aaaaaaaaaa 1816
129 <210> SEQ ID NO: 2
130 <211> LENGTH: 426
131 <212> TYPE: PRT
132 <213> ORGANISM: Homo sapiens
133 <400> SEQUENCE: 2
134 Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
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136 Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
137          -1 1          5          10
138 Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
139          15          20          25
140 Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
141          30          35          40          45
142 Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
143          50          55          60

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RAW SEQUENCE LISTING

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TIME: 12:30:15

Input Set : N:\Crif3\RULE60\10645702.RAW.txt

Output Set: N:\CRF4\01212004\J645702.raw

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144   Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
145               65              70              75
146   Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
147               80              85              90
148   Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
149               95              100             105
150   Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
151             110              115              120             125
152   Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
153               130              135              140
154   Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
155               145              150              155
156   Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
157               160              165              170
158   Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
159             175              180              185
160   Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
161             190              195              200             205
162   Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
163               210              215              220
164   Gly Asp Ser Glu Gly Ala Thr Val Gln Leu Thr Pro Tyr Phe Pro Thr
165               225              230              235
166   Cys Gly Ser Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro
167             240              245              250
168   Gln Thr Gly Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly
169             255              260              265
170   Gly Trp Leu Pro Leu Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val
171             270              275              280             285
172   Leu Val Ala Gly Ile Tyr Leu Met Trp Arg His Glu Arg Ile Lys Lys
173             290              295              300
174   Thr Ser Phe Ser Thr Thr Thr Leu Leu Pro Pro Ile Lys Val Leu Val
175             305              310              315
176   Val Tyr Pro Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr Phe Thr
177             320              325              330
178   Glu Phe Leu Gln Asn His Cys Arg Ser Glu Val Ile Leu Glu Lys Trp
179             335              340              345
180   Gln Lys Lys Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu Ala Thr
181             350              355              360             365
182   Gln Lys Lys Ala Ala Asp Lys Val Val Phe Leu Leu Ser Asn Asp Val
183               370              375              380
184   Asn Ser Val Cys Asp Gly Thr Cys Gly Lys Ser Glu Gly Ser Pro Ser
185             385              390              395
186   Glu Asn Ser Gln Asp Ser Ser Pro Cys Leu
187             400              405
189 <210> SEQ ID NO: 3
190 <211> LENGTH: 426
191 <212> TYPE: PRT
192 <213> ORGANISM: Homo sapiens
193 <400> SEQUENCE: 3

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RAW SEQUENCE LISTING

DATE: 01/21/2004

PATENT APPLICATION: US/10/645,702

TIME: 12:30:15

Input Set : N:\Crif3\RULE60\10645702.RAW.txt

Output Set: N:\CRF4\01212004\J645702.raw

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194 Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
195 1 5 10 15
196 Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
197 20 25 30
198 Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
199 35 40 45
200 Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
201 50 55 60
202 Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
203 65 70 75 80
204 Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
205 85 90 95
206 Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
207 100 105 110
208 Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
209 115 120 125
210 Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
211 130 135 140
212 Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
213 145 150 155 160
214 Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
215 165 170 175
216 Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
217 180 185 190
218 Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
219 195 200 205
220 Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
221 210 215 220
222 Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
223 225 230 235 240
224 Gly Asp Ser Glu Gly Ala Thr Val Gln Leu Thr Pro Tyr Phe Pro Thr
225 245 250 255
226 Cys Gly Ser Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro
227 260 265 270
228 Gln Thr Gly Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly
229 275 280 285
230 Gly Trp Leu Pro Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val
231 290 295 300
232 Leu Val Ala Gly Ile Tyr Leu Met Trp Arg His Glu Arg Ile Lys Lys
233 305 310 315 320
234 Thr Ser Phe Ser Thr Thr Thr Leu Leu Pro Pro Ile Lys Val Leu Val
235 325 330 335
236 Val Tyr Pro Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr Phe Thr
237 340 345 350
238 Glu Phe Leu Gln Asn His Cys Arg Ser Glu Val Ile Leu Glu Lys Trp
239 355 360 365
240 Gln Lys Lys Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu Ala Thr
241 370 375 380
242 Gln Lys Lys Ala Ala Asp Lys Val Val Phe Leu Leu Ser Asn Asp Val

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/645,702

DATE: 01/21/2004
TIME: 12:30:16

Input Set : N:\Crf3\RULE60\10645702.RAW.txt
Output Set: N:\CRF4\01212004\J645702.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 17,65,148,160,362,373,388,406

Seq#:5; N Pos. 10,39,42,44,45,53,106,120,121,128,163,173,210,223,233,238

Seq#:5; N Pos. 241,247,251,261,267,269,274,277,279,280,285,289,293,295,302

Seq#:5; N Pos. 305,312

Seq#:17; N Pos. 29,101

VERIFICATION SUMMARY

DATE: 01/21/2004

PATENT APPLICATION: US/10/645,702

TIME: 12:30:16

Input Set : N:\Crif3\RULE60\10645702.RAW.txt

Output Set: N:\CRF4\01212004\J645702.raw

L:35 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:37 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:260 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:263 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:266 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:269 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:272 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:275 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:278 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:298 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:301 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:304 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:307 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:310 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:313 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
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L:328 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
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L:337 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
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L:376 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:379 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:382 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:483 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:486 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
M:341 Repeated in SeqNo=17
L:758 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:34
L:760 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:34